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§ 227. **Localities.**—I give below a list of desirable plants which I have collected in the localities named. Most of the stations are readily accessible from the city, and the plants, for the most part, occur in sufficient numbers to bear considerable collecting. All the places named are in N. J., unless otherwise stated. The Roseland referred to was formerly Centreville, in the northern part of Livingston.

Ranunculus Cymbalaria, Pursh. Rockaway, L. I. ; quite abundant.

Viola cucullata, Ait. Var. *cordata* ; Franklin, rare ; var. with white markings ; more com. than the above.

V. pedata, L., Var. *bicolor* ; Rockaway Station, L. I. ; abundant near school-house.

V. pubescens, Ait., Var. *scabriuscula*, Torr. & Gray ; found this season at Franklin, in Camp-meeting Wood.

Arenaria squarrosa, Michx. ; very abundant just east of the bridge crossing Bass River, on road from Atsion to Tuckerton.

Stellaria longifolia, Muhl. ; com. in low grounds at Franklin.

Cerastium nutans, Raf. ; Bloomfield, not common.

Geranium Carolinianum, L. ; com. at Franklin, in cult. ground.

Erodium cicutarium, L. Her. ; occasionally found near the woollen mills at Franklin, where it is introduced in wool.

Staphylea trifolia, L. ; abundant on a bank just west of Paterson.

Polygala ambigua, Nutt. ; quite frequent at Franklin, with *P. verticillata*.

P. paucifolia, Wild. ; south of the swamp at the head of the upper mill pond, Franklin.

Trifolium procumbens, L. ; a troublesome weed in some gardens and cultivated fields at Franklin, where it has been introduced in wool.

Robinia hispida, L. ; Franklin, very sparingly in the edge of a water-cress patch.

Vicia cracca, L. ; found once near Bellevue Nursery, Paterson.

Lathyrus palustris, L. ; I have this specimen in my herbarium, but the note of locality is lost. I think I found it near Kingsland Station, D. L. & W. R. R., where var. *myrtifolius* grows quite abundantly.

Poterium Canadense ; abundant near county line, on road from Franklin to Passaic.

Potentilla tridentata, Ait., [!] grows sparingly in fields at Irvington, N. Y.

Proserpinaca pectinacea, Lam. ; banks of Passaic, near Erie R. R. Station, Newark.

Oenothera pumila, L. ; Franklin, not common.

Cuphea viscosissima, Jacq. ; quite frequent and abundant at Franklin, in grainfields, and meadows.

Sicyos angulatus, L. ; not rare in Bellville, near the Passaic.

Discopleura capillacea, DC. ; salt marshes between Kingsland Station, and Hackensack River.

Cicuta bulbifera, L. ; not infrequent at Franklin, on Second River, and its chain of ponds.

Houstonia caerulea, L. ; Franklin, on high land, a mile or more from the Passaic. [Quite common in the country about the Passaic. Eds.]

Eupatorium rotundifolium, L. ; Montclair and Franklin ; not com.

Diplopappus cornifolius, Darl. ; Franklin, Camp-meeting Wood.

Centaurea nigra, L. ; collected once in Bloomfield.

Lysimachia lanceolata, Walt., var. *hybrida* ; upper mill-pond, Franklin ; var. *angustifolia* ; with the above.

Aphyllon uniflorum, Torr. & Gray ; very com. in and about Franklin.

Mimulus alatus, Ait. ; Bloomfield ; situations very wet ; rare.

Castillaea coccinea, Spreng. ; Roseland ; not common.

Pedicularis lanceolata, Michx. ; abundant near county line, on road from Passaic to Franklin.

Cunila Mariana, L. ; com. in the neighborhood of Brookdale, and Little Falls.

Monarda fistulosa, L. ; roadside near Kingsland's paper mills, Franklin.

Echium vulgare, L. ; roadside near Duncan's mills, Franklin ; introduced in wool.

Cynoglossum Morrisoni, DC. ; Franklin ; not common.

Datura Tatula, L. ; Passaic River, at Newark ; also at Sandy Hook and Long Branch.

Gentiana crinita, Froel. ; rather abundant in some localities at Roseland.

Obolaria Virginica, L. ; about one hundred yards south of a line running west from Upper Montclair Station, M. & S. L. R. R., growing there in profusion.

Celtis occidentalis, L. ; sparingly among the hills near Paterson.

Peltandra Virginica, Raf. ; abundant on borders of Kingsland's Creek, near Kingsland Station, D. L. & W. R. R.

Orontium aquaticum, L. ; grows sparingly and not very luxuriantly at Roseland.

Alisma Plantago, L., var. *Americanum* ; Gray ; this I find occasionally at Franklin.

Liparis ; I have found both species together with *Obolaria*.

Cypripedium parviflorum, Salisb. ; High Mountain, north-west of Paterson.

C. pubescens ; quite com. on mts. of Montclair.

Trillium cernuum, L. ; borders of swamp at head of upper mill-pond, Franklin ; not very abundant.

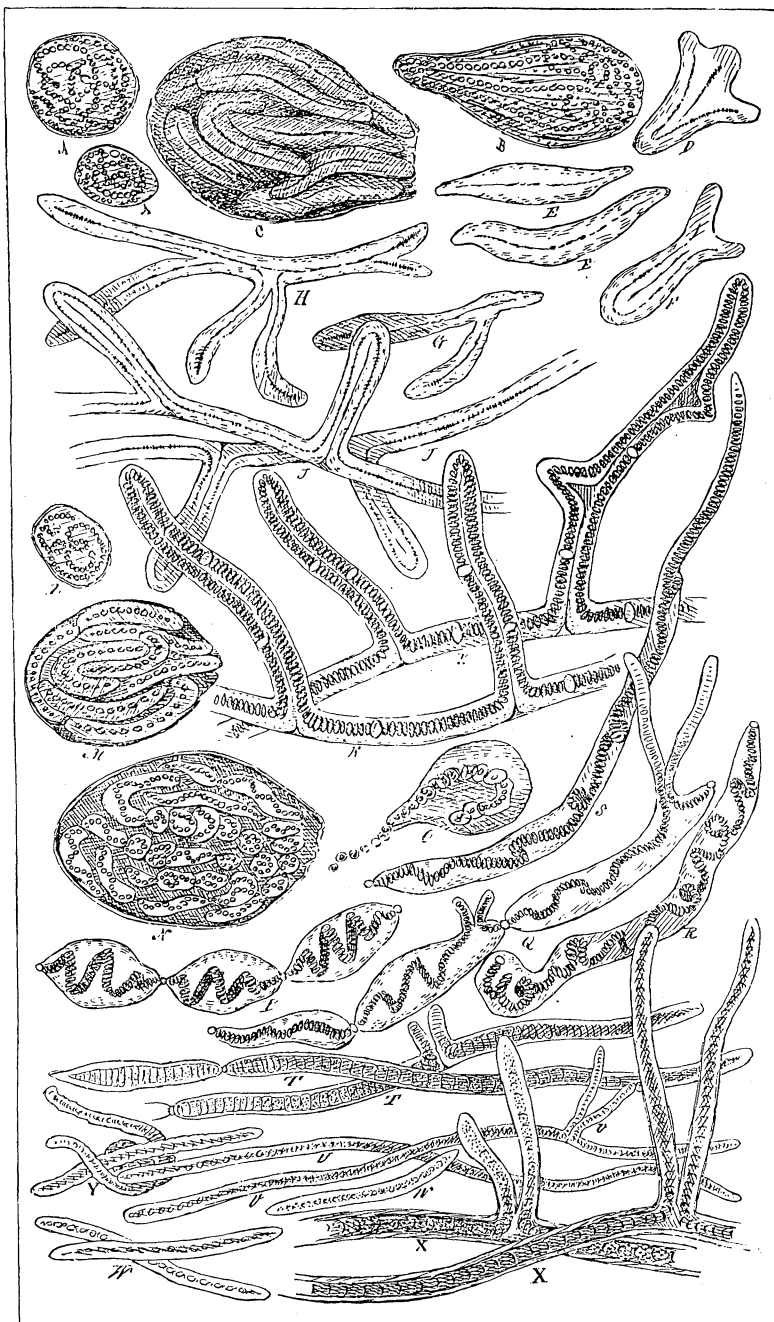
Chamaelirium luteum, Gray ; very abundant just south-west of the above swamp. It is worth a long journey to behold this flower-garden in full bloom, about the first of August.

Ornithogalum umbellatum, L. ; com. in Franklin ; farm of Mrs. Elizabeth Stager.

Commelyna Virginica, L. ; Camden, near West Jersey R. R. Station.

Selaginella rupestris, Spreng. ; rocks near Passaic Falls, Paterson.

I have this season found a very curious freak in a flower of *Ranunculus repens*. The sepals are entirely wanting, and many of



A NOSTOC THE MATRIX OF SCYTONEMA.

the stamens are reflexed, so that they protrude between the petals, backward almost to the flower-stalk.

I consider it remarkable that my brother, while collecting for me two years since, found *Rubus odoratus*, L., well established in swamps, in Dade Co., S. Fla ! The specimens sent me seemed to be rather depauperate, and the clammy hairs disposed to be stiff.

At the same place he found magnificent specimens of *Cephalanthus occidentalis*, with leaves over six inches long, without the petioles, glabrous and shining, margins reticulate.

H. H. RUSBY.

We may add to this list *Olaenlandia glomerata*. Mchx. Mr. A. Brown found a patch at Rockaway last September.

§ 228. **Lygodium palmatum in Tennessee.**—Prof. Eaton in Ferns of America, No. 1, says this species "occurs, how profusely is not known, in Virginia, Kentucky, Tennessee, the Carolinas, Georgia, and probably in Alabama."

The question of its profusion in one locality in Tennessee is settled by the discovery, by Prof. A. G. Weatherby of the Cincinnati University, of large patches of this beautiful species on the line of the Cincinnati Southern Rail Road, a few miles north of Chitwood, Scott county. Prof. W. says that there are "literally acres of it;" and the specimens brought from the locality are large and fine.

DAVIS L. JAMES.

§ 229. **Publications.**—1. *Smithsonian Miscellaneous Collections*, 258. *Biographical Index to North American Botany, or Citations of Authorities for all the recorded indigenous and naturalized species of the Flora of North America, with a chronological arrangement of the synonymy*, by Sereno Watson, Part I. POLYPETALAE. Washington, March, 1878. Probably no single work of so great interest to American botanists has appeared since the publication of Torrey & Gray's Flora. It is a work of vast labor and critical research which could only have been accomplished with the aid of the rich resources of Cambridge, and that it is carefully done both the name of the author assures us, and we find from consulting the pages for the species which we have more particularly studied, The Genera Plantarum of Bentham & Hooker has been followed in the sequence of the orders, excepting Paronychieae, while the genera and species are arranged alphabetically for greater facility of reference. The present part includes 69 orders, the last being Cornaceae; 545 genera; and 3038 species. This gives a little less than 8 genera for an order, and a little more than $5\frac{1}{2}$ species for a genus. From Bentham & Hooker for the same orders, we estimate about $35\frac{1}{2}$ genera to the order, and about 12 species to the genus for the whole world as far as known. On this estimate the North American flora represents about 10 per cent. of the species, and $22\frac{1}{2}$ per cent. of the genera of these orders; or, in other words, is more than twice as rich in genera as in species.

A work of this nature must always remain incomplete, owing to the multiplicity of publications, the difficulties of synonymy, and the necessary delays in publication. To the 442 pages in the body of the work are added 25 of additions and corrections, of which it is a noticeable trait that a very considerable proportion of the omissions